



SEQUENCE LISTING

<110> GAGE, Fred  
SUHR, Steven  
GIL, Elad  
SENUT, Marie-Claude

<120> HORMONE RECEPTOR FUNCTIONAL DIMERS AND METHODS OF THEIR USE

<130> SALK2350

<140> US 09/421,971

<141> 1999-10-20

<160> 75

<170> PatentIn version 3.0

<210> 1

<211> 67

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<223> Binding domain of the steroid/thyroid hormone superfamily  
of receptor

<220>

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<223> Xaa is any amino acid

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Cys Xaa Xaa Cys Xaa Xaa Asp Xaa Ala Xaa Gly Xaa Tyr Xaa Xaa Xaa  
1 5 10 15

Xaa Cys Xaa Xaa Cys Lys Xaa Phe Phe Xaa Arg Xaa Xaa Xaa Xaa Xaa  
20 25 30

Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Lys  
35 40 45

Xaa Xaa Arg Xaa Xaa Cys Xaa Xaa Cys Arg Xaa Xaa Lys Cys Xaa Xaa  
50 55 60

Xaa Gly Met  
65

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Gly Gly Gly Gly Ser  
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Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
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Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Ser  
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Gly Ser Thr Ser Gly Ser Gly Lys Ser Ser Glu Gly Lys Gly  
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Gly Ser Thr Ser Gly Ser Gly Lys Ser Ser Glu Gly Ser Gly Ser Thr  
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Lys Gly

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Gly Ser Thr Ser Gly Ser Gly Lys Ser Ser Glu Gly Lys Gly  
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Gly Ser Thr Ser Gly Ser Gly Lys Pro Gly Ser Gly Glu Gly Ser Thr  
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Lys Gly

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Glu Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Glu Phe  
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Ser Arg Ser Ser Gly  
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<400> 11

Ser Gly Ser Ser Cys  
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<210> 12  
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<400> 12

Ala Met Gly Arg Ser Gly Gly Gly Cys Ala Gly Asn Arg Val Gly Ser  
1 5 10 15

Ser Leu Ser Cys Gly Gly Leu Asn Leu Gln Ala Met  
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Ala Met Gly Gly Ser Ala Met  
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Gly Pro Gly Gly Gly Ser Gly Gly Gly Ser Gly Thr  
1 5 10

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Cys Gly Gly Ala Gly Gly Ala Cys Thr Gly Thr Cys Cys Thr Cys Cys  
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Gly

<210> 17  
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Gly Pro Gly Gly Gly Ser Gly Gly Gly Ser Gly Thr  
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gtagaattcg gccaacaggg cccatggaca ccaaacattt c  
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<223> hRXR N-terminal SfiI primer 3'

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gatgggggag ctcagggtgc  
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<223> hRXR C-terminal SfiI primer 5'

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ggagagctcg aggcctactg ca  
22

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accatcgatt cagggccctg ttggcccgtg cggcgcctc  
39



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gtagaattcg gccaacaggg cccatggaca actgcgacca g  
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cagcacgtgg accattgaca  
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ggagagctct ttctcgagca gctg  
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accatcgatt cagggccctg ttggcccctc cagtttcac gccaggccg  
49

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cataagctta tgggacagac actgatggga cggccc  
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<400> 27

cagagaccat gggccctggtt ggccccccac c  
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ttaccgctag ctccacca  
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gtagatatca gggccctggt ggcccagtcg tcgagt  
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gcctgaacct cccccggagc cacctcctgg ccctgt  
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aagcttgaga gatctgggac ggcgcccccg gggctagcgg gccaca  
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Ile Trp Asp Gly Ala Pro Gly Ala Ser  
1 5



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<400> 37

Ala Met Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly  
1 5 10 15

Ser Ala Met

<210> 38  
<211> 22  
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<400> 38

Ala Met Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly  
1 5 10 15

Ser Gly Gly Ser Ala Met  
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<210> 39  
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<220>  
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<400> 39

Ala Met Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly  
1 5 10 15

Ser Gly Gly Ser Gly Gly Ser Ala Met  
20 25

<210> 40  
<211> 28  
<212> PRT  
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<400> 40

Ala Met Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly  
1 5 10 15

Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Ala Met  
20 25

<210> 41  
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Ala	Met	Gly	Gly	Ser	Gly	Gly	Ser	Gly	Gly	Ser	Gly	Gly	Ser	Gly	Gly
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Ser	Gly	Gly	Ser	Gly	Gly	Ser	Gly	Gly	Ser	Gly	Gly	Ser	Ala	Met	
			20					25					30		

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Ala	Met	Gly	Gly	Ser	Gly	Gly	Ser	Gly	Gly	Ser	Gly	Gly	Ser	Gly	Gly
1				5				10					15		
Ser	Gly	Gly	Ser	Gly	Gly	Ser	Gly	Gly	Ser	Gly	Gly	Ser	Gly	Gly	Ser
			20					25					30		

Ala Met



<210> 43  
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<400> 43

Ala Met Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly  
1 5 10 15

Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser  
20 25 30

Gly Gly Ser Ala Met  
35

<210> 44  
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Ala Met Gly Gly Gly Ser Ala Met  
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Ala Met Gly Gly Gly Ser Gly Gly Gly Ser Ala Met  
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<210> 46  
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<400> 46

Ala Met Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala Met  
1 5 10 15

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Ala Met Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly  
1 5 10 15

Gly Ser Ala Met  
20

<210> 48  
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Ala Met Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly  
1 5 10 15

Gly Ser Gly Gly Gly Ser Ala Met  
20

<210> 49  
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<400> 49

Ala Met Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly  
1 5 10 15

Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala Met  
20 25



<210> 52  
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<400> 52

Ala Met Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly  
1 5 10 15

Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly  
20 25 30

Gly Ser Gly Gly Gly Ser Ala Met  
35 40

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<400> 53

Ala Met Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly  
1 5 10 15

Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly  
20 25 30

Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala Met  
35 40

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<400> 54

Ala Met Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly  
1 5 10 15

Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly  
20 25 30

Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala Met  
35 40 45

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<400> 55

Ala Met Gly Gly Gly Gly Ser Ala Met  
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Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Met  
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Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 1 5 10 15

Ser Ala Met

<210> 58  
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Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 1 5 10 15

Ser Gly Gly Gly Gly Ser Ala Met  
20

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Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
1 5 10 15

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Met  
20 25

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Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
1 5 10 15

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
20 25 30

Ala Met



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Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
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 Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
                     20                      25                      30  
  
 Gly Gly Gly Gly Ser Ala Met  
                     35

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Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
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 Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
                     20                      25                      30  
  
 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Met  
                     35                      40

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Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 1 5 10 15  
 Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
 20 25 30  
 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala  
 35 40 45  
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Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 1 5 10 15  
 Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
 20 25 30  
 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 35 40 45  
 Gly Gly Gly Ser Ala Met  
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Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 1                      5                      10                      15  
 Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
                     20                      25                      30  
 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
                     35                      40                      45  
 Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Met  
                     50                      55

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Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
 1                      5                      10                      15

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<400> 67

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
1 5 10 15

Gly Gly Gly Ser  
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<210> 68  
<211> 25  
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<400> 68

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser  
20 25

<210> 69  
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Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
 20 25 30

<210> 70  
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Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly  
 20 25 30

Gly Gly Ser  
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<400> 71

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly  
20 25 30

Gly Gly Ser Gly Gly Gly Gly Ser  
35 40

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<400> 72

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly  
20 25 30

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
35 40 45

<210> 73  
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<400> 73

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly  
20 25 30

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly  
35 40 45

Gly Ser  
50

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<211> 55  
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Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly  
20 25 30

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly  
35 40 45

Gly Ser Gly Gly Gly Ser  
50 55

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Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
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 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly  
 20 25 30  
 Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly  
 35 40 45  
 Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
 50 55 60